

Title (en)
REACTOR FOR THE AUTOTHERMAL REFORMING OF DIESEL

Title (de)
REAKTOR FÜR AUTOTHERME DIESELREFORMIERUNG

Title (fr)
RÉACTEUR POUR LE REFORMAGE AUTOTHERME DE GASOIL

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Application
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Abstract (en)
[origin: WO2011148068A2] The invention relates to a method for the autothermal reforming of a hydrocarbon feed in a catalytic reforming reactor, including the steps that consist of: a) mixing the hydrocarbon feed with water vapour, and vaporising the hydrocarbon feed if not already vaporised; b) pre-distributing the vaporised mix of hydrocarbon feed and water across the section of the reforming reactor using a multipoint injector network; c) injecting a gaseous oxidising flow, preferably pure oxygen, into the pre-distributed mixture from step (b) at the injectors from step (b); d) distributing, in the presence of an autothermal reforming catalyst, the mixture obtained in step (c) homogeneously across the section of the reforming reactor; and e) reforming the mixture distributed in step (d) in the catalytic zone of the reforming reactor.

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